ELSEVIER

Physica C 297 (1998) 333–335

PHYSICA C

Author Index to Volume 297

Abraham, R., see Lebbou, K., **297** (1998) 201
Adriaanse, L.J., see Martens, H.C.F., **297** (1998) 149
Alario-Franco, M.A., see Rial, C., **297** (1998) 277
Alario-Franco, M.Á., see Martín-González, M.S., **297** (1998) 185
Aleksa, M., P. Pongratz, O. Eibl, F.M. Sauerzopf, H.W. Weber, T.W. Li and P.H. Kes, TEM observation of neutron-induced collision cascades in Bi-2212 single crystals, **297** (1998) 171
Amador, U., see Rial, C., **297** (1998) 277
Amm, K.M., see Sastry, P.V.P.S.S., **297** (1998) 223
Andersen, N.H., see Rial, C., **297** (1998) 277
Aoki, R., see Gogadze, G.A., **297** (1998) 232
Aomine, T., see Fujiki, H., **297** (1998) 309
Araujo-Moreira, F.M., see Maiser, E., **297** (1998) 15

Barilo, S.N., see Jandl, S., **297** (1998) 64
Bass, F., B.Ya. Shapiro, I. Shapiro and M. Shvartser, Nonlinear flux diffusion in type-II superconductors, **297** (1998) 269
Bhat, S.V., see Sudershan, Y.S., **297** (1998) 253
Biggers, R., see Varanasi, C., **297** (1998) 262
Bontemps, N., see Davidov, D., **297** (1998) 111
Brom, H.B., see Martens, H.C.F., **297** (1998) 149
Bromley, S.T. and D.J. Newman, Effect of orthorhombicity on the superconducting phase of the cuprates: a Monte Carlo study, **297** (1998) 294
Busbee, J., see Varanasi, C., **297** (1998) 262

Chan, P.W., see Wu, W., **297** (1998) 247
Chen, L.F., see Xu, S.Y., **297** (1998) 43
Chen, X.J., see Sha, J., **297** (1998) 91
Cohen-Adad, M.T., see Lebbou, K., **297** (1998) 201
Couach, M., see Lebbou, K., **297** (1998) 201
Currie, D.B. and M.T. Weller, Nickel substitution in $Ln_2Ba_4Cu_{7-x}Ni_xO_{14+\delta}$. (Ln = lanthanide, yttrium), **297** (1998) 95
Czjzek, G., see Maiser, E., **297** (1998) 15

Damodaran, A.D., see Syamaprasad, U., **297** (1998) 85
Davidov, D., N. Bontemps, M. Golosovsky and G. Waysand, Magnetic field distribution in superconducting composites as revealed by ESR-probe and magnetization, **297** (1998) 111
Dempsey, D., see Varanasi, C., **297** (1998) 262
Diko, P. and K.C. Goretta, Macroscopic shape change of melt-processed $YBa_2Cu_3O_x/Y_2BaCuO_5$ bulk superconductors, **297** (1998) 211
Diko, P., S. Takebayashi and M. Murakami, Origin of subgrain formation in melt-grown Y–Ba–Cu–O bulks, **297** (1998) 216
Divin, Y.Y., see Shadrin, P.M., **297** (1998) 69
Dou, S.X., see Horvat, J., **297** (1998) 10
Dou, S.X., see Wang, W.G., **297** (1998) 1

Eibl, O., see Aleksa, M., **297** (1998) 171

Feng, Y., L. Zhou, J.G. Wen, N. Koshizuka, A. Sulpice, J.L. Tholence, J.C. Vallier and P. Monceau, Fishtail effect, magnetic properties and critical current density of Gd-added PMP YBCO, **297** (1998) 75
Flükiger, R., see Lebbou, K., **297** (1998) 201
Fournier, P., see Maiser, E., **297** (1998) 15
Franck, J.P., see Lawrie, D.D., **297** (1998) 59
Frikach, K., see Jandl, S., **297** (1998) 64
Fu, W.T., see Martens, H.C.F., **297** (1998) 149
Fujiki, H., B. Shinozaki, T. Aomine, S. Tanaka, T. Kawae and K. Takeda, Nonlinear resistivity in the mixed state of superconducting aluminum films, **297** (1998) 309

Galez, P., see Lebbou, K., **297** (1998) 201
García-Jaca, J., see Martín-González, M.S., **297** (1998) 185
Gladyshevskii, R.E., see Lebbou, K., **297** (1998) 201
Gogadze, G.A., V.M. Svistunov, R. Aoki, H. Murakami and M. Shirai, A new method of superconducting energy gap spectroscopy, **297** (1998) 232
Golosovsky, M., see Davidov, D., **297** (1998) 111
Goretta, K.C., see Diko, P., **297** (1998) 211
Greene, R.L., see Maiser, E., **297** (1998) 15
Grover, A.K., see Sudershan, Y.S., **297** (1998) 253
Guo, Y.C., see Horvat, J., **297** (1998) 10
Guruswamy, P., see Syamaprasad, U., **297** (1998) 85

Hirano, T., see Kiuchi, M., **297** (1998) 161
Hofer, J., J. Karpinski, M. Willemin, G.I. Meijer, E.M. Kopnin, R. Molinski, H. Schwer, C. Rossel and H. Keller, Doping dependence of superconducting parameters in $HgBa_2CuO_{4+\delta}$ single crystals, **297** (1998) 103
Hong, G.-W., see Lee, H.-G., **297** (1998) 124
Horvat, J., Y.C. Guo and S.X. Dou, Difference in mechanical properties of weak and strong links in Bi-2223/Ag superconducting tapes, **297** (1998) 10
Horvat, J., see Wang, W.G., **297** (1998) 1
Hu, A.M., W. Liu, J.W. Xiong, Y.L. Qin, C. Pang and Z.X. Zhao, TEM observations of melt-textured Nd123 superconductors, **297** (1998) 52

Huh, Y., see Song, I., **297** (1998) 144
Hussain, M., S. Kuroda and K. Takita, Peak effect observed in Zn doped YBCO single crystals, **297** (1998) 176

Jandl, S., P. Richard, J. Trottier, K. Frikach, M. Poirier, D.I. Zhigunov, S.N. Barilo and S.V. Shiryaev, Infrared and microwave studies of defects in Nd_2CuO_4, **297** (1998) 64
Jeong, D.Y. and M.H. Sohn, High J_c's observed in just-rolled Tl-1223/Ag tapes prepared using a $Tl_{0.8}Pb_{0.2}Bi_{0.2}Sr_{1.6}Ba_{0.4}Ca_2Cu_3O_z$ composition, **297** (1998) 192
Jiao, Z.K., see Sha, J., **297** (1998) 91

Kang, K.-Y., see Song, I., **297** (1998) 144
Karpinski, J., see Hofer, J., **297** (1998) 103
Kawae, T., see Fujiki, H., **297** (1998) 309
Keller, H., see Hofer, J., **297** (1998) 103
Kes, P.H., see Aleksa, M., **297** (1998) 171
Kim, W.-J., see Lee, H.-G., **297** (1998) 124
Kiuchi, M., H. Yamato, T. Hirano, T. Matsushita and N. Koshizuka, Force-displacement characteristic of fluxoids along the *c*-axis in superconducting Bi-2212 single crystal near the peak field, **297** (1998) 161
Knoll, D.C., see Sastry, P.V.P.S.S., **297** (1998) 223
Kopnin, E.M., see Hofer, J., **297** (1998) 103
Koshizuka, N., see Feng, Y., **297** (1998) 75
Koshizuka, N., see Kiuchi, M., **297** (1998) 161
Kozlowski, G., see Varanasi, C., **297** (1998) 262
Krasnov, V.M. and V.V. Ryazanov, Comparison of the pinning and the bulk currents in the critical state of a type-II superconductor, **297** (1998) 153
Kumari, S. and O.N. Srivastava, On the special synthesis of $YBa_2Cu_4O_8$ thin films by spray pyrolysis through Ca substitution and $AgNO_3$ admixture, **297** (1998) 166
Kuroda, S., see Hussain, M., **297** (1998) 176

Lawrie, D.D., J.P. Franck and C.-T. Lin, Search for an isotope effect in the antiferromagnetic transitions of cupric oxide CuO, **297** (1998) 59
Lebbou, K., M.T. Cohen-Adad, R. Abraham, S. Trosset, R.E. Gladyshevskii, R. Flükiger, P. Galez, G.W. Schulz, H.W. Weber and M. Couach, Tl/Pb and Sr/Ba cuprates of type 1212: compositional effect on the purity and on the superconducting properties, **297** (1998) 201
Lee, H.-G., W.-J. Kim, G.-W. Hong, M.-H. Lee and H.-S. Park, Effects of pressing on the current flow in a Ag/Bi-2223 tape, **297** (1998) 124
Lee, I., see Song, I., **297** (1998) 144
Lee, M.-H., see Lee, H.-G., **297** (1998) 124
Lee, S., see Song, I., **297** (1998) 144
Li, J.N., see Wang, W.G., **297** (1998) 1
Li, T.W., see Aleksa, M., **297** (1998) 171
Lin, C.-T., see Lawrie, D.D., **297** (1998) 59
Liptak, D., see Varanasi, C., **297** (1998) 262
Liu, H.K., see Wang, W.G., **297** (1998) 1
Liu, W., see Hu, A.M., **297** (1998) 52
Looney, C., J.S. Schilling and Y. Shimakawa, The influence of pressure-induced relaxation effects on T_c in $TlSr_2CaCu_2O_{7-\delta}$, **297** (1998) 239
Low, B.L., see Xu, S.Y., **297** (1998) 43

Maartense, I., see Varanasi, C., **297** (1998) 262
Magnusson, J., E. Papadopoulou, P. Svedlindh and P. Nordblad, ac susceptibility of a paramagnetic Meissner effect sample, **297** (1998) 317
Maiser, E., P. Fournier, J.-L. Peng, F.M. Araujo-Moreira, T. Venkatesan, R.L. Greene and G. Czjzek, Pulsed-laser deposition of $Pr_{2-x}Ce_xCuO_{4-y}$ thin films and the effect of high-temperature post-annealing, **297** (1998) 15
Manca, P., see Tyuterev, V.G., **297** (1998) 32
Martens, H.C.F., W.T. Fu, J.A. Reedijk, L.J. Adriaanse and H.B. Brom, The superconductor insulator transition in Ce substituted $BaPb_{1-x}Bi_xO_3$, **297** (1998) 149
Martín-González, M.S., J. García-Jaca, E. Morán and M.Á. Alario-Franco, Synthesis of $BaBiO_3$ and $Ba_{1-x}K_xBiO_3$ films via an electrodeposition process, **297** (1998) 185
Martínez, J.L., see Rial, C., **297** (1998) 277
Matsushita, T., see Kiuchi, M., **297** (1998) 161
Meijer, G.I., see Hofer, J., **297** (1998) 103
Molinski, R., see Hofer, J., **297** (1998) 103
Monceau, P., see Feng, Y., **297** (1998) 75
Morán, E., see Martín-González, M.S., **297** (1998) 185
Morán, E., see Rial, C., **297** (1998) 277
Morris, D.E., see Zhao, G.-m., **297** (1998) 23
Moser, E.K., see Varanasi, C., **297** (1998) 262
Mula, G., see Tyuterev, V.G., **297** (1998) 32
Murakami, H., see Gogadze, G.A., **297** (1998) 232
Murakami, M., see Diko, P., **297** (1998) 216
Murayama, N., see Yasukawa, M., **297** (1998) 326

Nekkanti, R., see Varanasi, C., **297** (1998) 262
Newman, D.J., see Bromley, S.T., **297** (1998) 294
Nishihara, Y., see Sudershan, Y.S., **297** (1998) 253
Nordblad, P., see Magnusson, J., **297** (1998) 317

Oberly, C.E., see Varanasi, C., **297** (1998) 262
Oka, K., see Sudershan, Y.S., **297** (1998) 253
Ong, C.K., see Xu, S.Y., **297** (1998) 43

Pang, C., see Hu, A.M., **297** (1998) 52
Papadopoulou, E., see Magnusson, J., **297** (1998) 317
Park, G., see Song, I., **297** (1998) 144
Park, H.-S., see Lee, H.-G., **297** (1998) 124
Peng, J.-L., see Maiser, E., **297** (1998) 15
Peterson, S.C., see Sastry, P.V.P.S.S., **297** (1998) 223
Peterson, T.L., see Varanasi, C., **297** (1998) 262
Poirier, M., see Jandl, S., **297** (1998) 64
Pongratz, P., see Aleksa, M., **297** (1998) 171
Prakash Kumar, V., see Syamaprasad, U., **297** (1998) 85

Qin, Y.L., see Hu, A.M., **297** (1998) 52

Ragini, R., see Syamaprasad, U., **297** (1998) 85
Rastogi, A., see Sudershan, Y.S., **297** (1998) 253
Reedijk, J.A., see Martens, H.C.F., **297** (1998) 149
Rial, C., E. Morán, M.A. Alario-Franco, U. Amador, J.L. Martínez, J. Rodríguez-Carvajal and N.H. Andersen, Effects of extra oxygen on the structure and super-

conductivity of $La_{2-x}Ca_xCuO_{4+y}$ prepared by chemical oxidation, **297** (1998) 277
Richard, P., see Jandl, S., **297** (1998) 64
Rodríguez-Carvajal, J., see Rial, C., **297** (1998) 277
Rossel, C., see Hofer, J., **297** (1998) 103
Ryazanov, V.V., see Krasnov, V.M., **297** (1998) 153
Rykov, A.I., Magnetization jumps in large crystals of $YBa_2Cu_3O_{7-\delta}$ with inhomogeneous vortex states, **297** (1998) 133

Saito, Y., see Shinkawa, M., **297** (1998) 27
Sakai, T., see Shinkawa, M., **297** (1998) 27
Sarma, M.S., see Syamaprasad, U., **297** (1998) 85
Sastry, P.V.P.S.S., K.M. Amm, D.C. Knoll, S.C. Peterson and J. Schwartz, Synthesis and processing of $(Hg,Pb)_1Ba_2Ca_2Cu_3O_y$ superconductors, **297** (1998) 223
Sauerzopf, F.M., see Aleksa, M., **297** (1998) 171
Schilling, J.S., see Looney, C., **297** (1998) 239
Schulz, G.W., see Lebbou, K., **297** (1998) 201
Schwartz, J., see Sastry, P.V.P.S.S., **297** (1998) 223
Schwer, H., see Hofer, J., **297** (1998) 103
Sha, J., X.J. Chen, Z.B. Wang, X.S. Ye and Z.K. Jiao, A new method for joining of Bi(2223)/Ag tapes, **297** (1998) 91
Shadrin, P.M. and Y.Y. Divin, Submicrometer electrical imaging of grain boundaries in high-T_c thin-film junctions by laser scanning microscopy, **297** (1998) 69
Shapiro, B.Ya., see Bass, F., **297** (1998) 269
Shapiro, I., see Bass, F., **297** (1998) 269
Shimakawa, Y., see Looney, C., **297** (1998) 239
Shinkawa, M., H. Utsunomiya, T. Sakai and Y. Saito, Effects of tension during rolling on the critical current density of Ag-sheathed (Bi,Pb)2223 superconducting tapes, **297** (1998) 27
Shinozaki, B., see Fujiki, H., **297** (1998) 309
Shirai, M., see Gogadze, G.A., **297** (1998) 232
Shiryaev, S.V., see Jandl, S., **297** (1998) 64
Shvartser, M., see Bass, F., **297** (1998) 269
Sinha, A.P.B., see Zhao, G.-m., **297** (1998) 23
Sohn, M.H., see Jeong, D.Y., **297** (1998) 192
Solomon, J., see Varanasi, C., **297** (1998) 262
Song, I., I. Lee, K.-Y. Kang, I. Song, S. Lee, Y. Huh and G. Park, Self-radiation power and microwave coupling of YBCO Josephson junction arrays on bicrystal MgO substrates, **297** (1998) 144
Song, I., see Song, I., **297** (1998) 144
Srivastava, O.N., see Kumari, S., **297** (1998) 166
Sudershan, Y.S., A. Rastogi, S.V. Bhat, A.K. Grover, Y. Yamaguchi, K. Oka and Y. Nishihara, Vortex dynamics at rf frequencies in $Bi_2Sr_2CaCu_2O_8$ single crystals, **297** (1998) 253
Sulpice, A., see Feng, Y., **297** (1998) 75
Svedlindh, P., see Magnusson, J., **297** (1998) 317
Svistunov, V.M., see Gogadze, G.A., **297** (1998) 232
Syamaprasad, U., M.S. Sarma, P. Guruswamy, V. Prakash Kumar, R. Ragini, K.G.K. Warrier and A.D. Damodaran, Effect of precursor phase assemblage on 2223 phase formation and J_c in Ag/(Bi,Pb)-2223 tapes, **297** (1998) 85

Takebayashi, S., see Diko, P., **297** (1998) 216
Takeda, K., see Fujiki, H., **297** (1998) 309
Takita, K., see Hussain, M., **297** (1998) 176
Tanaka, S., see Fujiki, H., **297** (1998) 309
Tholence, J.L., see Feng, Y., **297** (1998) 75
Trosset, S., see Lebbou, K., **297** (1998) 201
Trottier, J., see Jandl, S., **297** (1998) 64
Tyuterev, V.G., P. Manca and G. Mula, Lattice dynamics of $YBa_2Cu_3O_{7-x}$ in oxygen-vacancy ordered ortho-II and ortho-III superstructures, **297** (1998) 32

Utsunomiya, H., see Shinkawa, M., **297** (1998) 27

Vallier, J.C., see Feng, Y., **297** (1998) 75
Varanasi, C., R. Biggers, I. Maartense, T.L. Peterson, J. Solomon, E.K. Moser, D. Dempsey, J. Busbee, D. Liptak, G. Kozlowski, R. Nekkanti and C.E. Oberly, $YBa_2Cu_3O_{7-x}$–Ag thick films deposited by pulsed laser ablation, **297** (1998) 262
Venkatesan, T., see Maiser, E., **297** (1998) 15

Wang, W.G., J. Horvat, J.N. Li, H.K. Liu and S.X. Dou, Effect of $(Pb,Bi)_3Sr_2Ca_2CuO_y$ phase on critical current density of $Ag/(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ tapes, **297** (1998) 1
Wang, Z.B., see Sha, J., **297** (1998) 91
Warrier, K.G.K., see Syamaprasad, U., **297** (1998) 85
Waysand, G., see Davidov, D., **297** (1998) 111
Weber, H.W., see Aleksa, M., **297** (1998) 171
Weber, H.W., see Lebbou, K., **297** (1998) 201
Weller, M.T., see Currie, D.B., **297** (1998) 95
Wen, J.G., see Feng, Y., **297** (1998) 75
Willemin, M., see Hofer, J., **297** (1998) 103
Wong, K.H., see Wu, W., **297** (1998) 247
Wu, W., K.H. Wong and P.W. Chan, Epitaxial growth of *a*-axis oriented $YBa_2Cu_3O_{7-y}/LaNiO_3$ heterostructures on (100) $SrTiO_3$ by pulsed laser deposition, **297** (1998) 247

Xiong, J.W., see Hu, A.M., **297** (1998) 52
Xu, S.Y., C.K. Ong, Y.L. Zhou, B.L. Low, L.F. Chen and X. Zhang, The effects of heating and annealing processes on the surface morphology and quality of double-sided $YBa_2Cu_3O_7-\delta$ thin films, **297** (1998) 43

Yamaguchi, Y., see Sudershan, Y.S., **297** (1998) 253
Yamato, H., see Kiuchi, M., **297** (1998) 161
Yasukawa, M. and N. Murayama, A phase transition with an abrupt electrical resistivity change around 800 K in $BaBi_{0.5}Pb_{0.5}O_3$, **297** (1998) 326
Ye, X.S., see Sha, J., **297** (1998) 91

Zhang, X., see Xu, S.Y., **297** (1998) 43
Zhao, G.-m., A.P.B. Sinha and D.E. Morris, Cause of T_c depression in Sr substituted $YBaSrCu_3O_{7-y}$ examined by isotope studies, **297** (1998) 23
Zhao, Z.X., see Hu, A.M., **297** (1998) 52
Zhigunov, D.I., see Jandl, S., **297** (1998) 64
Zhou, L., see Feng, Y., **297** (1998) 75
Zhou, Y.L., see Xu, S.Y., **297** (1998) 43

ELSEVIER

Physica C 297 (1998) 336–337

PHYSICA C

Analytic Subject Index to Volume 297

AC susceptibility
–of $Bi_2Sr_2CaCu_2O_8$ 317
–of $YBa_2Cu_3O_{7-x}$-Ag thick films 262
Aluminum films 309
Annealing
–of $Ag/(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ tapes 1
–of Ag/Bi-2223 tape 124
–of $YBa_2Cu_3O_{7-\delta}$ thin films 43
Antiferromagnetic order
–in CuO 59
Applications of high T_c superconductors 262
α-axis oriented
–of $YBa_2Cu_3O_{7-y}/LaNiO_3$ films 247

$CaHgO_2$ source 223
Charge-density waves
–in $BaBi_{0.5}Pb_{0.5}O_3$ 326
Critical current density 153
–of Ag-sheathed $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ 27
–of Ag/(Bi,Pb)-2223 tapes 85
–of $Ag/(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ tapes 1
–of Bi(2223)/Ag sheathed tapes 91
–of Bi-2212 single crystal 161
–of Bi-2223/Ag tapes 10
–of $Tl_{0.8}Pb_{0.2}Bi_{0.2}Sr_{1.6}Ba_{0.4}Ca_2Cu_3O_z$/Ag tapes 192
–of YBCO single crystals 176
–of $YBa_2Cu_3O_{7-x}$-Ag thick films 262
–of $YBa_2Cu_4O_8$ thin films 166
Critical current
–of Ag/Bi-2223 tape 124
Critical state model 153
Crystal field excitations
–of Nd_2CuO_4 64
Crystal structure
–of $Tl_{1-x}Pb_x(Sr_{1-y}Ba_y)_2CaCu_2O_{7-\delta}$ 201

D-wave 294
Defects
–in Nd_2CuO_4 64
Densification 192
Density 124
Distribution function 232
Doping dependent anisotropy
–in $HgBa_2CuO_{4+\delta}$ microcrystals 103

ESR probing 111
EXAFS
–on $Ln_2Ba_4Cu_{7-x}Ni_xO_{14+\delta}$ 95
Electrical imaging 69
Electrical resistivity
–of $BaBi_{0.5}Pb_{0.5}O_3$ 326
–of $BaPb_{1-x-y}Bi_xCe_yO_3$ 149
–of $Pr_{2-x}Ce_xCuO_{4-y}$ thin films 15
–of $YBa_2Cu_3O_{7-y}/LaNiO_3$ films 247
Electrical resistivity of Al films 309
Electrodeposition 185
Energy gap 232, 294

Field emission 232
First order transition 133
Fishtail effect
–of $Y_{0.4}Gd_{0.6}Ba_2Cu_3O_y$ 75
–of $YBa_2Cu_3O_y$ 75
Flux diffusion 269
Flux dynamics 269
Flux motion 269
Flux pinning 153
–in Bi-2223/Ag tapes 10
–in $Y_{0.4}Gd_{0.6}Ba_2Cu_3O_y$ 75
–in $YBa_2Cu_3O_y$ 75
Fluxoids
–in Bi-2212 single crystal 161

Gap spectroscopy 232
Grain alignment
–in Ag-sheathed $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ 27
Grain boundaries
–in Bi-2223/Ag tapes 10
–in $YBa_2Cu_3O_{7-x}$ 69
Growth front
–in $YBa_2Cu_3O_x$-Y_2BaCuO_5 211
–in $YBa_2Cu_3O_y$ 216

H–T phase diagram
–of $Bi_2Sr_2CaCu_2O_8$ single crystals 253
Hole concentration
–in $YBa_{2-x}Sr_xCu_3O_{7-y}$ 23

In-situ phase formation
–of Ag/(Bi,Pb)-2223 tapes 85
Inhomogeneous magnetic field distribution 111
Irradiation effect
–on $Bi_2Sr_2CaCu_2O_8$ single crystals 171
Irreversibility field
–of $Ag/(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ tapes 1
Isotope effect
–in Cuo 59
–in $YBa_{2-x}Sr_xCu_3O_{7-y}$ 23

Josephson junction 144
Josephson junctions 69

Lattice dynamics
–of $YBa_2Cu_3O_{7-x}$ 32
Low-T_c superconductor 309

Magnetic properties
–of $Bi_2Sr_2CaCu_2O_8$ 317
Magnetic torque 103
Magnetization 111, 153
–of $(Hg,Pb)Ba_2Ca_2Cu_3O_y$ 223
–of $HgBa_2CuO_{4+\delta}$ microcrystals 103
–of $Y_{0.4}Gd_{0.6}Ba_2Cu_3O_y$ 75
–of YBCO single crystals 176
–of $YBa_2Cu_3O_y$ 75
Magnetization jumps
–in $YBa_2Cu_3O_{7-\delta}$ single crystals 133
Metal-insulator transition
–in $BaBi_{0.5}Pb_{0.5}O_3$ 326
Microstructure
–of $(Hg,Pb)Ba_2Ca_2Cu_3O_y$ 223
–of Ag/Bi-2223 tape 124
–of Nd123 52
–of $YBa_2Cu_3O_y$ 216
Microwave conductivity
–of Nd_2CuO_4 64
Microwave coupling 144
Mixed state
–in $YBa_2Cu_3O_{7-\delta}$ single crystals 133

Neutron diffraction
–on $La_{2-x}Ca_xCuO_4$ 277

Orthorhombicity 294
Oxygen isotope shifts
–in $YBa_{2-x}Sr_xCu_3O_{7-y}$ 23
Oxygen ordering
–in $YBa_2Cu_3O_{7-x}$ 32
Oxygen stoichiometry
–in $La_{2-x}Ca_xCuO_4$ 277
Oxygen vacancies
–in $TlSr_2CaCu_2O_{7-\delta}$ 239

Paramagnetic Meissner effect
–in $Bi_2Sr_2CaCu_2O_8$ 317
Pb-doping
–in $(Hg,Pb)Ba_2Ca_2Cu_3O_y$ 223
Peak effect
–in YBCO single crystals 176
Peak field
–of Bi-2212 single crystal 161
Phase equilibria 201
Phase evolution
–of Ag/(Bi,Pb)-2223 tapes 85
Phonon dispersion
–in $YBa_2Cu_3O_{7-x}$ 32
Pinning force
–in YBCO single crystals 176
Polaronic model 103
Post annealing
–of $Pr_{2-x}Ce_xCuO_{4-y}$ thin films 15
Precursor phase assemblage
–for Ag/(Bi,Pb)-2223 tapes 85
Pressing
–of Ag/Bi-2223 tape 124
Pressure effect
–on $TlSr_2CaCu_2O_{7-\delta}$ 239
Pulsed laser deposition
–of $YBa_2Cu_3O_{7-\delta}$ thin films 43
–of $YBa_2Cu_3O_{7-y}/LaNiO_3$ films 247

RF absorption
–in $Bi_2Sr_2CaCu_2O_8$ single crystals 253
Radiation damage
–on $Bi_2Sr_2CaCu_2O_8$ single crystals 171
Relaxation effect
–in $TlSr_2CaCu_2O_{7-\delta}$ 239

Self-radiation power 144
Shape change
–of $YBa_2Cu_3O_x$-Y_2BaCuO_5 211
Shapiro-steps 144
Strong links 10
Structural defects
–in Nd123 52
Structural phase transition
–in $BaBi_{0.5}Pb_{0.5}O_3$ 326
Structure
–of Ag/$(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ tapes 1
–of $Ba_{1-x}K_xBiO_3$ films 185
–of $BaBiO_3$ films 185
–of $BaPb_{1-x-y}Bi_xCe_yO_3$ 149
–of Bi(2223)/Ag sheathed tapes 91
–of $La_{2-x}Ca_xCuO_4$ 277
–of $Ln_2Ba_4Cu_{7-x}Ni_xO_{14+\delta}$ 95
–of $Pr_{2-x}Ce_xCuO_{4-y}$ thin films 15
–of $YBa_2Cu_3O_{7-\delta}$ thin films 43
–of $YBa_2Cu_3O_{7-y}/LaNiO_3$ films 247
Subgrain arrangement
–in $YBa_2Cu_3O_x$-Y_2BaCuO_5 211
Subgrain formation
–in $YBa_2Cu_3O_y$ 216
Substitution effects
–in $Ln_2Ba_4Cu_{7-x}Ni_xO_{14+\delta}$ 95
–in $YBa_2Cu_4O_8$ thin films 166
–in $YBa_{2-x}Sr_xCu_3O_{7-y}$ 23
Superconducting composites 111
Superconducting joint
–between Bi(2223)/Ag sheathed tapes 91
Superconducting transition temperature
–of $Tl_{1-x}Pb_x(Sr_{1-y}Ba_y)_2CaCu_2O_{7-\delta}$ 201
Superconductor insulator transition
–in $BaPb_{1-x-y}Bi_xCe_yO_3$ 149
Surface morphology
–of $YBa_2Cu_3O_{7-\delta}$ thin films 43
Synthesis
–of $(Hg,Pb)Ba_2Ca_2Cu_3O_y$ 223
–of Ag-sheathed $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ 27
–of Ag/(Bi,Pb)-2223 tapes 85
–of $Ba_{1-x}K_xBiO_3$ films 185
–of $BaBiO_3$ films 185
–of $Ln_2Ba_4Cu_{7-x}Ni_xO_{14+\delta}$ 95
–of $Pr_{2-x}Ce_xCuO_{4-y}$ thin films 15
–of $Tl_{0.8}Pb_{0.2}Bi_{0.2}Sr_{1.6}Ba_{0.4}Ca_2Cu_3O_z$/Ag tapes 192
–of $Tl_{1-x}Pb_x(Sr_{1-y}Ba_y)_2CaCu_2O_{7-\delta}$ 201
–of $YBa_2Cu_3O_{7-x}$-Ag thick films 262
–of $YBa_2Cu_3O_{7-y}/LaNiO_3$ films 247
–of $YBa_2Cu_4O_8$ thin films 166

Tension effect
–on Ag-sheathed $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ 27
Thermoelectric power
–of $BaBi_{0.5}Pb_{0.5}O_3$ 326
Thin films 69
Transition temperature
–of $YBa_2Cu_4O_8$ thin films 166
Transmission electron microscopy
–on Nd123 52
Tunneling electron microscopy
–on $Bi_2Sr_2CaCu_2O_8$ single crystals 171

Van Hove 294
Vortex decoupling
–in $Bi_2Sr_2CaCu_2O_8$ single crystals 253
Vortex dynamics
–in $Bi_2Sr_2CaCu_2O_8$ single crystals 253
Vortex-glass phase transition 309

Weak links 10

$YBa_2Cu_3O_{7-y}/LaNiO_3$ herterostructures 247

Zn doping
–in YBCO single crystals 176